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INAGAKI HAJIME(54) AQUEOUS COPOLYMER DISPERSION, PREPARATION THEREOF, AND COATING FILM
FORMED THEREFROM

(57)Abstract:

PURPOSE: To improve the adhesiveness and film-forming properties by dispersing a partially neutralized ethylene-acrylic acid copolymer in an aq. dispersion of a partially neutralized ethylene-methacrylic acid copolymer.

CONSTITUTION: 80-20wt.% partially neutralized ethylene-acrylic acid copolymer having an acrylic acid content of 5-45wt.% and an MFR of 1-4500g/10min is dispersed in an aq. dispersion of 20-80wt.% partially neutralized ethylene-methacrylic acid copolymer having a methacrylic acid content of 5-45wt.% and MFR (190° C, ASTM D1238) of 0.1-30g/10min, to give a copolymer compsn. contg. 5-50wt.% the sum of the two copolymers and having a viscosity of 30-250cP. The resulting compsn. is applied to a substrate, heated and baked at 80-250° C for 20sec to 10min, giving a coating film with a thickness of 10µm or higher.